

METHODS FOR ERADICATING INJURIOUS BITING INSECTS

Constant and Concerted Warfare Must be Made Against Little Pests—Arsenate of Lead May be Purchased Ready Prepared and Is Quite Convenient to Use—Other Recipes.

(By GLENN W. HERRICK, Milledale, Ill.)

There are many kinds of insects that pester the farmer and fruit grower, and all of them, taken together, may be divided into two great groups dependent upon the kind of mouth parts they have and the manner in which they attack plants. The insects of one group have jaws and bite off bits of plants and swallow them. They are known as the biting insects. The members of the second group have a bill or sucking tube which they insert into the tissues of plants and suck out the juices. These are the sucking insects.

The grasshopper is a familiar example of the first class of insects, for it has biting mouth parts, composed of two pairs of jaws, one of which is hard and black and easily seen with the eye. With these jaws the grasshopper bites off pieces of leaves, stems, etc., and swallows them much as a cow or horse would do. Very many insect pests have biting mouth parts like the grasshopper and eat parts of plants. For example, the caterpillars, or "worms," on cotton, tomatoes, cabbage, etc., the June bugs, fig-eaters, potato bugs, etc. All such insects are known as the biting insects.

It is plain that an insect that bites off pieces of leaves and swallows them stands a relatively high chance of being killed by putting some poisonous substance upon the leaves before they are eaten. It is absolutely necessary to know what kind of an insect is causing the injury—whether it is a biting or sucking insect. This is the first point to determine.

Probably Paris green is one of the best known poisons for biting insects. It is rather expensive, difficult to buy unadulterated and is quite liable to burn the foliage of plants if applied too strong.

It can be applied dry as follows:
1 pound of Paris green,
25 pounds of slaked lime or flour.
The two should be thoroughly mixed and may be sifted on the plants from a this muslin sack, preferably in the morning while the dew is yet on.

Paris green may also be applied in water, which we believe is a better method than the dry one for most plants. Quick lime is added to prevent burning of the foliage and the poison is used in the following proportions:

1 pound of Paris green,
200 to 300 gallons of water,
3 pounds quick lime.
Slake this lime in a little water and add the Paris green. Stir thoroughly.



The Way the Female Grasshopper Places Her Eggs.

and then add the proper amount of water—for potatoes 200 gallons of water, and for peaches 300 gallons.

Arsenate of lead is a combination of arsenic and acetate of lead and is better than Paris green, because it sticks to the foliage better, will not burn the leaves, and remains in suspension longer. It can be made as follows:

11 ounces acetate of lead (white sugar of lead),
4 ounces arsenate of soda,
50 gallons water.
Dissolve the acetate of lead in 4 quarts of water and the arsenate of

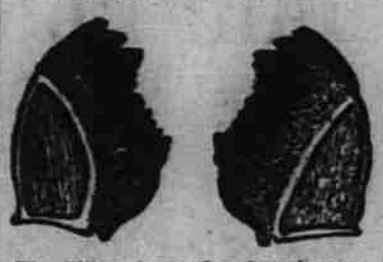
soda in 2 quarts of water. Pour them together, mix thoroughly and then dilute with 50 gallons of water. It is then ready to use at once.

Arsenate of lead can be bought ready prepared and is very convenient to use. It should be used at the rate of 4 to 6 pounds of the arsenate of lead to 100 gallons of water.

White arsenic is cheap, easy to get, and is not often adulterated. Therefore, when it is combined with lime or sal soda to prevent burning of the foliage, it is a most satisfactory insecticide.

It may be prepared as follows:
1 pound white arsenic,
4 pounds quick lime,
4 gallons water.

Boil the lime and arsenic together in the water for half an hour and then



The Biting Jaws of a Grasshopper.

dilute with 200 gallons of water for spraying.

Arsenate of lime may also be prepared by boiling two pounds of white arsenic and eight pounds of sal soda in two gallons of water for 15 or 20 minutes, or until the arsenic and soda are dissolved. This constitutes a stock solution which may be kept in a sealed jug for a long time. When ready to spray, slake two pounds of quick lime, take one pint of the stock solution and mix them both with 40 gallons of water.

SEASON WOOD BY ELECTRICITY

Method as Patented in France Described in British Technical Paper—Does Work Well.

The following item from a British technical paper concerns a new process of seasoning wood by electricity in France:

A large tank is filled with a solution containing 10 per cent. of borax and 5 per cent. of resin, with just a trace of carbonate of soda. In the bottom of the tank is a lead plate which is electrically connected to the positive pole of the dynamo. The timber to be treated is stacked on this plate, and when the tank has been filled another plate is superimposed and connected to the negative pole of the dynamo. When the current is switched on it passes through the stack of wood between the two plates, and in its passage it is said to deposit borax and resin in its pores, completely filling up all pores and interstices. When the process is completed the timber is removed and dried, after which it is ready for use. It is claimed that the timber submitted to this treatment, no matter how green it may be, becomes completely seasoned.

Protect the Silo.

Wherever possible the silo should be located in a sheltered place, as it has a great bearing on the extent to which the silage will freeze. A silo that is built on the west side of a barn, where it is exposed to the cold winds, even if it is built with dead air spaces, will freeze more than one built of solid concrete if it is sheltered.

WEST VIRGINIA NEIGHBORS

Mr. Floyd Hancock, of Floyd, Va., and Miss Florence Copley, of Kermit, were married recently at Williamson by the Rev. James Thompson. Mr. Hancock is a prominent business man of that city. Miss Copley is a bright and charming young school teacher.

Don Slater, formerly a resident of Williamson, was killed Thursday morning in a battle with strikers on Cabin Creek. He was employed as a watchman by one of the coal companies.

A terrific hail storm swept through the Kanawha Valley last Friday, damaging crops and prostrating wire communication. The monetary loss is heavy, but no lives are believed to have been lost.

Half a dozen frame buildings at the corner of Third Ave. and Pike St., Williamson, were entirely destroyed by a fire Tuesday morning. F. D. Pfening, proprietor of the Royal Baking Co., was painfully injured during the fire.

Mrs. Arabelle Copley is the oldest teacher in point of service in Wayne county, having taught forty years. Lee S. Dick is second oldest, having taught thirty-eight years.

Mothers Have Your Children Worms

Are they feverish, restless, nervous, irritable, dizzy or constipated? Do they continually pick their nose or grind their teeth? Have they cramping pains, irregular and ravenous appetites? These are all signs of worms. Worms not only cause your child suffering, but stunt its mind and growth. Give "Kickapoo Worm Killer" at once. It kills and removes the worms, improves your child's appetite, regulates stomach, liver and bowels. The symptoms disappear and your child is made happy and healthy, as nature intended. All druggists or by mail, 25c. Kickapoo Indian Medicine Co. Philadelphia, Pa. St. Louis, Mo.

BUCHANAN.

Geo. Williamson left Tuesday for Peru, Ind., where he will superintend a job of concrete work for the Watson Contract Co.

Miss Ernestine Stump, of Logan, W. Va., is visiting relatives here.

Mrs. Chas. Warren attended the funeral of Mrs. John Martin in Ashland Saturday.

Rev. and Mrs. C. L. Neff are spending this week with relatives at Banner.

Misses Beatrice and Jerome Chapman, of Paris, Ky., are here for a visit with their uncle, Dr. Allen Prichard and family, before leaving for their new home in Tupelo, Miss., where their father, Geo. W. Chapman, has accepted the presidency of the Tupelo Military Institute.

Mrs. Tom Cartmel is visiting in Ashland.

Mrs. Lou Huthblison has returned to Adamstown, W. Va., after an extended visit with her sister, Mrs. J. R. Compton.

Born, this week, to Mr. and Mrs. Jas. Peterman, a son—John Allen, and to Mr. and Mrs. Fred Deakins, a daughter—Mary Etta.

Sam McSorley and John Copley have gone to Chillicothe, O., where they have employment with Dillard and Stern Co.

Mrs. Robt. Cooksey and children, of Longstreth, O., are visiting her mother, Mrs. Annie Kinner.

Sam Turman has returned from a business trip to New York City.

Prichard Hager and Roy Campbell, of Prichard, W. Va., called on the Misses Chapman Sunday.

Misses Nola Estep and Jesse Stewart, of Ashland, were Sunday visitors here. RAGAMUFFIN.

RATCLIFF.

There was church at this place Saturday night and Sunday.

Bill Roberts and family were visiting on Cook's creek Sunday.

Norma Holbrook spent Sunday with her sister, Mrs. G. B. Belcher.

Miss Ruby Riffe was visiting her sister, Mrs. Howard Wilson, Saturday.

Boston Hammond, of Jattie, was here Sunday.

Several young folks from Glenwood attended church here Sunday.

Miss Rebecca Blevins, of Willard, was calling at M. F. Waddell's last Saturday.

Con Lester and family visited home folks Saturday and Sunday.

M. P. Waddell made a business trip to Grayson Saturday.

Born, to Mr. and Mrs. J. M. Thompson on the 26th ult., a boy, Samuel Webb and Walden Riffe were at Willard Sunday.

School at this place is progressing nicely. BLUE EYED BEAUTY.

CELEBRATION IN LOUISVILLE

KENTUCKY METROPOLIS WILL COMMEMORATE INCIDENTS IN WAR OF 1812.

HUNDRED YEARS OF PEACE

Battles Which Kentuckians Won and Massacres in Which They Suffered Will Be Reproduced in Fireworks and Shams on Land and Water.

A week's celebration, which Louisville declares will be the greatest and most spectacular in the history of celebrations in America, will be held in the Kentucky metropolis for seven days, commencing September 29, and will be the climax of a series of celebrations held in a dozen lake cities, to commemorate the sufferings and victories of American arms in the War of 1812 as well as to focus attention on the achievements of a century of peace. The crucial and decisive engagement of the War of 1812 was the battle of the Thames, fought and won on Canadian soil October 5, 1813. The series of celebrations, which will be held in America will close in Louisville, October 5, 1913, and just one hundred years from the hour that Col. Richard M. Johnston, afterward Vice President of the United States, slew the Indian chief Tecumseh, President Woodrow Wilson will probably be addressing a crowd of 100,000 people in Louisville, the home of many of the troops who fought in the battle of the Thames.

Kentucky was assigned the closing and choice date of the celebration because of the distinguished part played by the Kentuckians in the War of 1812. Kentucky began to play her part in the generation before the war opened, when she sent Gen. George Rogers Clark and other Louisville soldiers into the hostile wilderness which they wrested from the French and Indians and out of which was afterward carved the great States of Ohio, Indiana, Illinois, Wisconsin and Michigan.

Kentucky was the last state which could have benefited from the war, inasmuch as it was brought about chiefly by the British impressment of American seamen, none of whom were Kentuckians, whereas should war prevail the unfriendly Indians on the frontier of the border states could be expected to commit atrocities from which Kentucky had already received the name "Dark and Bloody Ground." However, it was chiefly Henry Clay, in the Kentucky Congressional Delegation that forced President Madison to declare the second war with Great Britain, and Kentucky furnished forty per cent of her fighting population to go into that war, and at the close of the war of the listed dead more than eighty per cent were the names of Kentuckians. Kentucky troops to a man were massacred at the River Raisin and again at the first attack on Fort Meigs.

When the time came to man Perry's new-born ships, he selected Kentuckians unaccustomed to the motion of the lakes to mount into the insecure rigging and from that vantage point, with their practiced eye and unerring aim, fired down upon the British and won the battle of Lake Erie. Practically every officer and soldier in the battle of the Thames was a Kentuckian, excepting alone Gen. William Henry Harrison, who, however, held his commission as Major-General from the Kentucky legislature. The charge of the Fortora Hope, about the briefest, most terrible and most heroic attack narrated in the annals of warfare, consisted exclusively of Kentucky soldiers when nineteen of them and their twenty horses went down to certain death. It was the Kentucky sharpshooters who are credited with having won the battle of New Orleans after the war had in reality closed.

Kentucky proposes to reproduce most of these scenes of the war of 1812 in the Louisville celebration. The battle of the Thames will be reproduced on land in Cherokee Park, topographically situated similar to the land on which was fought the battle of the Thames, and every detail of the sham battle will be as nearly historically correct as can be done. Louisville will take advantage of her magnificent river frontage in order to celebrate suitably the battle of Lake Erie. The actual battle will be depicted in a gorgeous entertainment of fireworks and all morning and all afternoon preceding the engagement there will be boat races, life saving feats and aquatic sports. A historical pageant, depicting various scenes of the war of 1812 will also include a magnificent floral parade, such as made Louisville famous a year ago, and will include civic and military parades many miles in length. Drills and exercises by 10,000 costume school children will be held in the First Regiment Armory; a mammoth reception will be given to the descendants of Kentucky soldiers and sailors of the war of 1812, and a series of costumed balls will be given in their honor.

Exceedingly low railroad rates, probably as low as one cent per mile, from a distance of several hundred miles of Louisville, will be granted and efforts are being made to secure to other Kentucky points rates from Louisville for the week immediately following the celebration, to enable former Kentuckians who return home to visit the celebration, to visit also their old Kentucky homes.

TONICS

This is the season at which you need a tonic. I have all the standard remedies in this line.

A. M. HUGHES,
DRUGGIST

LOUISA.

KENTUCKY

THELMA.

On Friday, July 25th, the literary society had a very fine opening at the Thelma school house. A large audience attended and enjoyed the following good program:

Song by society and audience.
Recitation by Hubert Preston.
Recitation by Heber Ward.
Music by phonograph.
Recitation by Annis Daniel.
Recitation by Maggie Preston.
Music by phonograph.
Lewis Wax works.
Recitation by Ruth Howard.
Mind reading by Thos. L. Lewis.
Banjo solo by Andrew Burchett.
Solo by Ruth Howard.
Reading by Thos. L. Lewis.
Song by the school.

The following officers were elected: Pres., H. G. Stanbaugh; Vice Pres., Thos. L. Lewis; Sec., Miss Mae Meade; Asst. Sec., Albert Perry; Treas., Jas. Fraley; Committee, Miss Maggie Preston, Roy Perry, Malcolm Ward and Tom Sammons; Editors, Miss Virgie Childers, Virgil Price, Annis Daniel and Jim Daniel; Doorkeeper, Green Price; Sergeant at Arms, Cam Holbrook. Leslie Picklesimer, of Sitka, visited friends here this week.

The Thelma school boys beat the Concord boys in a game of ball 5 to 5 Friday.

LOVELL.

Our school is progressing nicely with Miss Gypsy Thompson teacher.

Oscar Hughes and son Willie visited at Jim Fletcher's Saturday and Sunday.

Mr. and Mrs. Albert Muncy were

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visiting Mrs. John Miller Sunday.

Miss Ethel Schrader was calling on Gracie Lovins recently.

Miss Hannah Fletcher is sick.

Mrs. Jane Fletcher and Miss Mary Fletcher were in Busseyville last Monday.

Jim Hardwick and wife were in Louisa recently.

Sallie Thompson was calling on Jettie and Marie Wilson last week.

A LONESOME GIRL.

FARMS FOR SALE.

This should appeal to men that want to raise cattle, hogs, sheep, or any kind of stock, and the man that wants to garden, raise fruits or berries, etc., for the markets are excellent here. The market gardener heads the list, the dairyman next, the live stock man next, etc. I have farms suited for all purposes, many of them on the best pikes in the county, some on good roads, all handy to school and church. I get a good many questions asked me: "Are there any negroes in the school district near such a farm you have advertised?" I have no farms in negro settlements, so there are no mixed schools here. Many of the farms I have for sale are close to my own. You may find men that will tell you before you get to me that it is too far out. Don't stop. Come on. I can show you better. The land is better out here, is much smoother and the roads are just as good. I have several good farms for sale with good locations for store, blacksmith shops, and many good opportunities for men to make money. Come and see me before you buy. Write or call me over the Bell phone. Write to Sciotoville, Ohio. Always come on No. 15 on the N. & W. Write four days before you start. I will meet you with rig.

F. B. LYNCH,
THE MOUNTAIN BOY,
R. D. No. 1, SCIOTOVILLE, O.
Bell Phone, Harrisonville, O.

Things We Sell

MANY OF THE READERS OF THE NEWS MAY WANT TO KNOW WHERE THEY CAN GET CERTAIN ARTICLES WE SELL—ALWAYS AT REASONABLE PRICES—SO WE MENTION A LOT OF THEM HERE.

JEWELRY—There is no item in this line that we can not supply you with. Diamonds, Watches, Solid Gold goods, Gold-filled and plated, and we tell you exactly the quality you are getting.

SILVERWARE, CUT GLASS, REAL CHINA.

BOOKS—Well supply of any book published, except those sold only by subscription. Bibles of all kinds.

STATIONERY—Everything in this line, including office supplies of all descriptions, Blank Books, etc.

KODAKS—We have them from \$1 up. Films and supplies of all kinds.

TALKING MACHINES—We sell Victor Victrolas, \$15, \$25, \$40, and on up. Records, needles, etc.

BASE BALL GOODS—Spaulding's line of balls, bats, mits, masks, etc., at same prices as charged everywhere.

GAMES—Checkers, cards, Dominoes, Flipch, Authors, Marbles, etc.

MUSICAL GOODS—Guitars, Banjos, Violins, Accordions, French Harp, Strings and supplies.

SHEET MUSIC—We have a line of good sheet music, vocal and instrumental, 15c up. Can furnish any piece you desire.

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TYPEWRITER RIBBONS, POUNTAIN PENS, PERIODICALS, SPECTACLES.

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